

Final report for NAG5-3597 "A Search for EGRET/Radio Pulsars in the Eta Carina Region"

Our analysis of EGRET data for the radio pulsar PSR B1046-58, which lies in the Eta Carina region of the Galaxy, was highly successful, resulting in the discovery of strong evidence for gamma-ray pulsations from this source. This work was published in the *Astrophysical Journal* (Kaspi et al. 2000, ApJ, 528, 445). Additional support for the association was published in a companion paper (Pivovarov, Kaspi & Gotthelf 2000, ApJ, 528, 436) in which an analysis of the X-ray counterpart to PSR B1046-58 was done, and we showed that it was the only possible counterpart to the gamma ray source within the EGRET error box.

The grant also covered our search for gamma-ray pulsations from the young pulsar PSR J1105-6107. As we report in Kaspi et al. 2000, we found no evidence for these pulsations in the available EGRET data.